



R4709

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,902B

DATE: 08/26/2002

TIME: 14:29:22

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

ENTERED

```

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
5   TANG, Y. Tom
6   LAL, Preeti
7   BANDMAN, Olga
8   YUE, Henry
9   CORLEY, Neil C.
10  GUEGLER, Karl J.
11  GORGONE, Gina A.
12  BAUGHN, Mariah R.
13  PATTERSON, Chandra
15 <120> TITLE OF INVENTION: PROTEIN TRANSPORT-ASSOCIATED MOLECULES
17 <130> FILE REFERENCE: PF-0577 PCT
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/763,902B
C--> 20 <141> CURRENT FILING DATE: 2002-08-22
22 <150> PRIOR APPLICATION NUMBER: 60/098,206
23 <151> PRIOR FILING DATE: 1998-08-27
25 <160> NUMBER OF SEQ ID NOS: 16
27 <170> SOFTWARE: PERL Program
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 480
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: misc_feature
36 <223> OTHER INFORMATION: Incyte ID No:012033CD1
38 <400> SEQUENCE: 1
39 Met Arg Phe Val Val Ala Leu Val Leu Leu Asn Val Ala Ala Ala
40 1          5          10          15
41 Gly Ala Val Pro Leu Leu Ala Thr Glu Ser Val Lys Gln Glu Glu
42          20          25          30
43 Ala Gly Val Arg Pro Ser Ala Gly Asn Val Ser Thr His Pro Ser
44          35          40          45
45 Leu Ser Gln Arg Pro Gly Gly Ser Thr Lys Ser His Pro Glu Pro
46          50          55          60
47 Gln Thr Pro Lys Asp Ser Pro Ser Lys Ser Ser Ala Glu Ala Gln
48          65          70          75
49 Thr Pro Glu Asp Thr Pro Asn Lys Ser Gly Ala Glu Ala Lys Thr
50          80          85          90
51 Gln Lys Asp Ser Ser Asn Lys Ser Gly Ala Glu Ala Lys Thr Gln
52          95          100         105
53 Lys Gly Ser Thr Ser Lys Ser Gly Ser Glu Ala Gln Thr Thr Lys
54          110         115         120
55 Asp Ser Thr Ser Lys Ser His Ser Glu Leu Gln Thr Pro Lys Asp

```

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/763,902B

TIME: 14:29:22

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

56		125		130		135
57	Ser Thr Gly Lys Ser Gly Ala Glu Ala		Gln Thr Pro Glu Asp Ser			
58		140		145		150
59	Pro Asn Arg Ser Gly Ala Glu Ala Lys		Thr Gln Lys Asp Ser Pro			
60		155		160		165
61	Ser Lys Ser Gly Ser Glu Ala Gln Thr		Thr Lys Asp Val Pro Asn			
62		170		175		180
63	Lys Ser Gly Ala Asp Gly Gln Thr Pro		Lys Asp Gly Ser Ser Lys			
64		185		190		195
65	Ser Gly Ala Glu Asp Gln Thr Pro Lys		Asp Val Pro Asn Lys Ser			
66		200		205		210
67	Gly Ala Glu Lys Gln Thr Pro Lys Asp		Gly Ser Asn Lys Ser Gly			
68		215		220		225
69	Ala Glu Glu Gln Gly Pro Ile Asp Gly		Pro Ser Lys Ser Gly Ala			
70		230		235		240
71	Glu Glu Gln Thr Ser Lys Asp Ser Pro		Asn Lys Val Val Pro Glu			
72		245		250		255
73	Gln Pro Ser Arg Lys Asp His Ser Lys		Pro Ile Ser Asn Pro Ser			
74		260		265		270
75	Asp Asn Lys Glu Leu Pro Lys Ala Asp		Thr Asn Gln Leu Ala Asp			
76		275		280		285
77	Lys Gly Lys Leu Ser Pro His Ala Phe		Lys Thr Glu Ser Gly Glu			
78		290		295		300
79	Glu Thr Asp Leu Ile Ser Pro Pro Gln		Glu Glu Val Lys Ser Ser			
80		305		310		315
81	Glu Pro Thr Glu Asp Val Glu Pro Lys		Glu Ala Glu Asp Asp Asp			
82		320		325		330
83	Thr Gly Pro Glu Glu Gly Ser Pro Pro		Lys Glu Glu Lys Glu Lys			
84		335		340		345
85	Met Ser Gly Ser Ala Ser Ser Glu Asn		Arg Glu Gly Thr Leu Ser			
86		350		355		360
87	Asp Ser Thr Gly Ser Glu Lys Asp Asp		Leu Tyr Pro Asn Gly Ser			
88		365		370		375
89	Gly Asn Gly Ser Ala Glu Ser Ser His		Phe Phe Ala Tyr Leu Val			
90		380		385		390
91	Thr Ala Ala Ile Leu Val Ala Val Leu		Tyr Ile Ala His His Asn			
92		395		400		405
93	Lys Arg Lys Ile Ile Ala Phe Val Leu		Glu Gly Lys Arg Ser Lys			
94		410		415		420
95	Val Thr Arg Arg Pro Lys Ala Ser Asp		Tyr Gln Arg Leu Asp Gln			
96		425		430		435
97	Lys Tyr Val Leu Ile Leu Asn Val Phe		Pro Ala Pro Pro Lys Arg			
98		440		445		450
99	Ser Phe Leu Pro Gln Val Leu Thr Glu		Trp Tyr Ile Pro Leu Glu			
100		455		460		465
101	Lys Asp Glu Arg His Gln Trp Ile Val		Leu Leu Ser Phe Gln Leu			
102		470		475		480
106	<210> SEQ ID NO: 2					
107	<211> LENGTH: 140					

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/763,902B

TIME: 14:29:22

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

```

108 <212> TYPE: PRT
109 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Incyte ID No:1209687CD1
115 <400> SEQUENCE: 2
116 Met Ala Ser Val Asp Phe Lys Thr Tyr Val Asp Gln Ala Cys Arg
117   1           5           10           15
118 Ala Ala Glu Glu Phe Val Asn Val Tyr Tyr Thr Thr Met Asp Lys
119           20           25           30
120 Arg Arg Arg Leu Leu Ser Arg Leu Tyr Met Gly Thr Ala Thr Leu
121           35           40           45
122 Val Trp Asn Gly Asn Ala Val Ser Gly Gln Glu Ser Leu Ser Glu
123           50           55           60
124 Phe Phe Glu Met Leu Pro Ser Ser Glu Phe Gln Ile Ser Val Val
125           65           70           75
126 Asp Cys Gln Pro Val His Asp Glu Ala Thr Pro Ser Gln Thr Thr
127           80           85           90
128 Val Leu Val Val Ile Cys Gly Ser Val Lys Phe Glu Gly Asn Lys
129           95          100          105
130 Gln Arg Asp Phe Asn Gln Asn Phe Ile Leu Thr Ala Gln Ala Ser
131          110          115          120
132 Pro Ser Asn Thr Val Trp Lys Ile Ala Ser Asp Cys Phe Arg Phe
133          125          130          135
134 Gln Asp Trp Ala Ser
135          140
139 <210> SEQ ID NO: 3
140 <211> LENGTH: 519
141 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <223> OTHER INFORMATION: Incyte ID No:1717058CD1
148 <400> SEQUENCE: 3
149 Met Ala Ala Glu Arg Glu Pro Pro Pro Leu Gly Asp Gly Lys Pro
150   1           5           10           15
151 Thr Asp Phe Glu Asp Leu Glu Asp Gly Glu Asp Leu Phe Thr Ser
152           20           25           30
153 Thr Val Ser Thr Leu Glu Ser Ser Pro Ser Ser Pro Glu Pro Ala
154           35           40           45
155 Ser Leu Pro Ala Glu Asp Ile Ser Ala Asn Ser Asn Gly Pro Lys
156           50           55           60
157 Pro Thr Glu Val Val Leu Asp Asp Asp Arg Glu Asp Leu Phe Ala
158           65           70           75
159 Glu Ala Thr Glu Glu Val Ser Leu Asp Ser Pro Glu Arg Glu Pro
160           80           85           90
161 Ile Leu Ser Ser Glu Pro Ser Pro Ala Val Thr Pro Val Thr Pro
162           95          100          105
163 Thr Thr Leu Ile Ala Pro Arg Ile Glu Ser Lys Ser Met Ser Ala

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,902B

DATE: 08/26/2002

TIME: 14:29:22

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

164		110		115		120
165	Pro Val Ile Phe Asp Arg Ser Arg Glu	Glu Ile Glu Glu Glu	Ala			
166		125		130		135
167	Asn Gly Asp Ile Phe Asp Ile Glu Ile	Gly Val Ser Asp Pro	Glu			
168		140		145		150
169	Lys Val Gly Asp Gly Met Asn Ala Tyr	Met Ala Tyr Arg Val	Thr			
170		155		160		165
171	Thr Lys Thr Ser Leu Ser Met Phe Ser	Lys Ser Glu Phe Ser	Val			
172		170		175		180
173	Lys Arg Arg Phe Ser Asp Phe Leu Gly	Leu His Ser Lys Leu	Ala			
174		185		190		195
175	Ser Lys Tyr Leu His Val Gly Tyr Ile	Val Pro Pro Ala Pro	Glu			
176		200		205		210
177	Lys Ser Ile Val Gly Met Thr Lys Val	Lys Val Gly Lys Glu	Asp			
178		215		220		225
179	Ser Ser Ser Thr Glu Phe Val Glu Lys	Arg Arg Ala Ala Leu	Glu			
180		230		235		240
181	Arg Tyr Leu Gln Arg Thr Val Lys His	Pro Thr Leu Leu Gln	Asp			
182		245		250		255
183	Pro Asp Leu Arg Gln Phe Leu Glu Ser	Ser Glu Leu Pro Arg	Ala			
184		260		265		270
185	Val Asn Thr Gln Ala Leu Ser Gly Ala	Gly Ile Leu Arg Met	Val			
186		275		280		285
187	Asn Lys Ala Ala Asp Ala Val Asn Lys	Met Thr Ile Lys Met	Asn			
188		290		295		300
189	Glu Ser Asp Ala Trp Phe Glu Glu Lys	Gln Gln Gln Phe Glu	Asn			
190		305		310		315
191	Leu Asp Gln Gln Leu Arg Lys Leu His	Val Ser Val Glu Ala	Leu			
192		320		325		330
193	Val Cys His Arg Lys Glu Leu Ser Ala	Asn Thr Ala Ala Phe	Ala			
194		335		340		345
195	Lys Ser Ala Ala Met Leu Gly Asn Ser	Glu Asp His Thr Ala	Leu			
196		350		355		360
197	Ser Arg Ala Leu Ser Gln Leu Ala Glu	Val Glu Glu Lys Ile	Asp			
198		365		370		375
199	Gln Leu His Gln Glu Gln Ala Phe Ala	Asp Phe Tyr Met Phe	Ser			
200		380		385		390
201	Glu Leu Leu Ser Asp Tyr Ile Arg Leu	Ile Ala Ala Val Lys	Gly			
202		395		400		405
203	Val Phe Asp His Arg Met Lys Cys Trp	Gln Lys Trp Glu Asp	Ala			
204		410		415		420
205	Gln Ile Thr Leu Leu Lys Lys Arg Glu	Ala Glu Ala Lys Met	Met			
206		425		430		435
207	Val Ala Asn Lys Pro Asp Lys Ile Gln	Gln Ala Lys Asn Glu	Ile			
208		440		445		450
209	Arg Glu Trp Glu Ala Lys Val Gln Gln	Gly Glu Arg Asp Phe	Glu			
210		455		460		465
211	Gln Ile Ser Lys Thr Ile Arg Lys Glu	Val Gly Arg Phe Glu	Lys			
212		470		475		480

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/763,902B

TIME: 14:29:22

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

```

213 Glu Arg Val Lys Asp Phe Lys Thr Val Ile Ile Lys Tyr Leu Glu
214                               485                               490                               495
215 Ser Leu Val Gln Thr Gln Gln Gln Leu Ile Lys Tyr Trp Glu Ala
216                               500                               505                               510
217 Phe Leu Pro Glu Ala Lys Ala Ile Ala
218                               515
223 <210> SEQ ID NO: 4
224 <211> LENGTH: 613
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <223> OTHER INFORMATION: Incyte ID No:1749964CD1
232 <400> SEQUENCE: 4
233 Met Ala Ala Thr Ala Val Ala Ala Ala Val Ala Gly Thr Glu Ser
234   1      5      10      15
235 Ala Gln Gly Pro Pro Gly Pro Ala Ala Ser Leu Glu Leu Trp Leu
236      20      25      30
237 Asn Lys Ala Thr Asp Pro Ser Met Ser Glu Gln Asp Trp Ser Ala
238      35      40      45
239 Ile Gln Asn Phe Cys Glu Gln Val Asn Thr Asp Pro Asn Gly Pro
240      50      55      60
241 Thr His Ala Pro Trp Leu Leu Ala His Lys Ile Gln Ser Pro Gln
242      65      70      75
243 Glu Lys Glu Ala Leu Tyr Ala Leu Thr Val Leu Glu Met Cys Met
244      80      85      90
245 Asn His Cys Gly Glu Lys Phe His Ser Glu Val Ala Lys Phe Arg
246      95     100     105
247 Phe Leu Asn Glu Leu Ile Lys Val Leu Ser Pro Lys Tyr Leu Gly
248     110     115     120
249 Ser Trp Ala Thr Gly Lys Val Lys Gly Arg Val Ile Glu Ile Leu
250     125     130     135
251 Phe Ser Trp Thr Val Trp Phe Pro Glu Asp Ile Lys Ile Arg Asp
252     140     145     150
253 Ala Tyr Gln Met Leu Lys Lys Gln Gly Ile Ile Lys Gln Asp Pro
254     155     160     165
255 Lys Leu Pro Val Asp Lys Ile Leu Pro Pro Pro Ser Pro Trp Pro
256     170     175     180
257 Lys Ser Ser Ile Phe Asp Ala Asp Glu Glu Lys Ser Lys Leu Leu
258     185     190     195
259 Thr Arg Leu Leu Lys Ser Asn His Pro Glu Asp Leu Gln Ala Ala
260     200     205     210
261 Asn Arg Leu Ile Lys Asn Leu Val Lys Glu Glu Gln Glu Lys Ser
262     215     220     225
263 Glu Lys Val Ser Lys Arg Val Ser Ala Val Glu Glu Val Arg Ser
264     230     235     240
265 His Val Lys Val Leu Gln Glu Met Leu Ser Met Tyr Arg Arg Pro
266     245     250     255
267 Gly Gln Ala Pro Pro Asp Gln Glu Ala Leu Gln Val Val Tyr Glu

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/763,902B

DATE: 08/26/2002

TIME: 14:29:23

Input Set : A:\pf0577usn_seqlist.txt

Output Set: N:\CRF3\08262002\I763902B.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date